



#12/13

# SEQUENCE LISTING

- <110> Mitchell, Lloyd G.  
Garcia-Blanco, Mariano A.  
Puttaraju, Madaiah
- <120> Methods and Compositions for use in  
Spliceosome Mediated RNA Trans-splicing
- <130> A34759 069906.0102
- <140> 10/075,028
- <141> 2002-02-12
- <160> 19
- <170> FastSEQ for Windows Version 4.0
- <210> 1
- <211> 8
- <212> RNA
- <213> Artificial Sequence
- B' <220>
- <223> 5' splice site consensus sequence
- <400> 1  
agguragu
- <210> 2
- <211> 7
- <212> RNA
- <213> Artificial Sequence
- <220>
- <223> Branch point consensus sequence
- <221> unsure
- <222> 2
- <223> A, C, G, T or U
- <400> 2  
ynyurac
- <210> 3
- <211> 7
- <212> PRT
- <213> Artificial Sequence

8

7

<220>

<223> FLAG peptide

<400> 3

Asp Tyr Lys Asp Asp Asp Lys

1

5

<210> 4

<211> 23

<212> DNA

<213> Artificial Sequence

<220>

<223> T7 polymerase promoter sequence

<400> 4

taatacgact cactataggg aga

23

<210> 5

<211> 23

<212> DNA

<213> Artificial Sequence

<220>

<223> SP6 polymerase promoter

<221> unsure

<222> 22

<223> A, C, G or T

<400> 5

atttaggtga cactatagaa gng

23

<210> 6

<211> 23

<212> DNA

<213> Artificial Sequence

<220>

<223> T3 polymerase promoter sequence

<400> 6

aattaaccct cactaaaggg aga

23

<210> 7

<211> 31

<212> DNA

<213> Artificial Sequence

<220>  
 <223> Oligonucleotide primer  
  
 <400> 7  
 ctaggcggcc gcctgctggt gttttgcttc c 31  
  
 <210> 8  
 <211> 21  
 <212> DNA  
 <213> Artificial Sequence  
  
 <220>  
 <223> Oligonucleotide primer  
  
 <400> 8  
 gtttcgctaa atactggcag g 21  
  
 <210> 9  
 <211> 31  
 <212> DNA  
 <213> Artificial Sequence  
  
 <220>  
 <223> Oligonucleotide primer  
  
 <400> 9  
 ctaggcggcc gcctgctggt gttttgcttc c 31  
  
 <210> 10  
 <211> 19  
 <212> DNA  
 <213> Artificial Sequence  
  
 <220>  
 <223> Oligonucleotide primer  
  
 <400> 10  
 ctggcaggcg tttcgtcag 19  
  
 <210> 11  
 <211> 27  
 <212> DNA  
 <213> Artificial Sequence  
  
 <220>  
 <223> 3' Splice site of PTM7  
  
 <400> 11  
 cagggcggct tcgtctggga ctgggtg 27

<210> 12  
<211> 8  
<212> DNA  
<213> Artificial Sequence

<220>  
<223> 5' Splice site of PTM7

<400> 12  
cggtaagt

8

<210> 13  
<211> 120  
<212> DNA  
<213> Artificial Sequence

<220>  
<223> First binding domain of PTM7

<400> 13  
gattcacttg ctccaattat catcctaagc agaagtgtat attcttattt gtaaagattc 60  
tattaactca ttgattcaa aatatttaaa atacttcctg tttcatactc tgctatgcac 120

<210> 14  
<211> 24  
<212> DNA  
<213> Artificial Sequence

<220>  
<223> Spacer sequences of PTM7

<400> 14  
aacattatta taacgttgct cgaa

24

<210> 15  
<211> 62  
<212> DNA  
<213> Artificial Sequence

<220>  
<223> Branch point, polypyrimidine tract and acceptor  
splice sites of PTM7

<400> 15  
tactaactgg tacctcttct tttttttttg atatcctgca gggcggcttc gtctgggact 60  
gg 62

<210> 16

<211> 70  
<212> DNA  
<213> Artificial Sequence

<220>  
<223> 5' donor site and second spacer sequences

<400> 16  
tgaacggtaa gtgttatcac cgatatgtgt ctaacctgat tcgggccttc gatacgctaa 60  
gatccaccgg 70

<210> 17  
<211> 260  
<212> DNA  
<213> Artificial Sequence

<220>  
<223> Second binding domain of PTM7

<400> 17  
tcaaaaagtt ttcacataat ttcttacctc ttcttgaatt catgctttga tgacgcttct 60  
gtatctatat tcatcattgg aaacaccaat gatttttctt taatgggtgcc tggcataatc 120  
ctggaaaact gataacacaa tgaaattctt ccactgtgct taaaaaaacc ctcttgaatt 180  
ctccatttct ccataatca tcattacaac tgaactctgg aaataaaacc catcattatt 240  
aactcattat caaatcacgc 260

<210> 18  
<211> 32  
<212> DNA  
<213> Artificial Sequence

<220>  
<223> First trans-splicing junction synthetic PTM

<400> 18  
ccgtttacag ggcggcttcg tctgggactg gg 32

<210> 19  
<211> 29  
<212> DNA  
<213> Artificial Sequence

<220>  
<223> Second trans-splicing junction synthetic PTM

<400> 19  
tctgtatgaa cggctctggtc tttgccgac 29